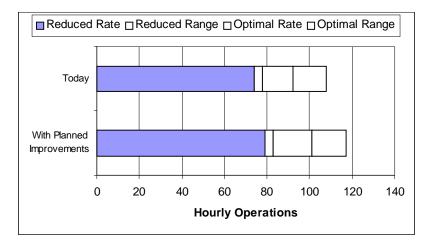
Newark International Airport Benchmarks

- The current capacity benchmark at Newark is 92-108 flights per hour in good weather.
- Current capacity falls to 74-78 flights (or fewer) per hour in adverse weather conditions, which may include poor visibility, unfavorable winds or heavy precipitation.
- Newark operates close to its good-weather capacity for about three hours of the day, but these traffic rates cannot be sustained in adverse weather.
- In 2000, Newark had the second highest rate of delays in the country. Over 8% of all flights at Newark experienced significant levels of delay (more than 15 minutes).
- In adverse weather, scheduled traffic exceeds capacity 7 ½ hours of the day.
- On good weather days, about 6% of the flights are delayed significantly (more than 15 minutes).
- On adverse weather days, about 18% of the flights are delayed significantly (more than 15 minutes).
- Technology and procedural improvements are expected to improve Newark's capacity benchmark by 10% (101-117 flights per hour) over the next 10 years, while the adverse weather capacity benchmark will increase by 7% (79-83 flights per hour).
- These capacity increases could be brought about as a result of:
 - ADS-B/CDTI (with LAAS), which provides a cockpit display of the location of other aircraft and will help the pilot maintain the desired separation more precisely.
 - FMS/RNAV Routes, which allow a more consistent flow of aircraft to the runway.
- Demand at Newark is projected to grow by 20% over the next decade. The imbalance between capacity and demand growth is expected to increase delays.

Airport Capacity Benchmarks — These values are for total operations achievable under specific conditions:

- Optimum Rate Visual Approaches (VAPS), unlimited ceiling and visibility
- Reduced Rate Most commonly used instrument configuration, below visual approach minima

| Scenario | Optimum Rate | Reduced Rate |
|---------------------------|-----------------|-----------------|
| Today | 92-108 | 74-78 |
| New Runway | N/A | N/A |
| With planned improvements | 101-117 | 79-83 |



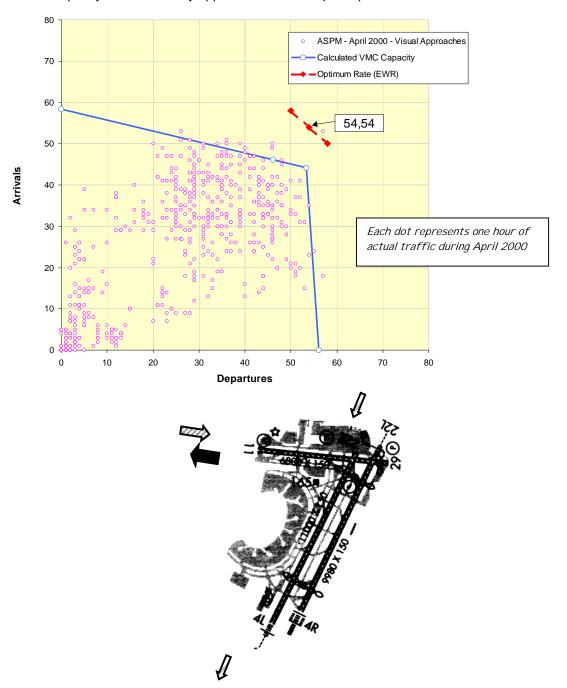
- The benchmarks describe an achievable level of performance for the given conditions, which can
 occasionally be exceeded. Lower rates can be expected under adverse conditions. Note: In some
 cases, facilities provided separate unbalanced maximum arrival and departure rates.
- Planned Improvements include:
 - ADS-B/CDTI (with LAAS) provides a cockpit display of the location of other aircraft. This will help the pilot maintain the desired separation more precisely.
 - FMS/RNAV Routes allows more consistent delivery of aircraft to the runway threshold.
- Benefits from Planned Improvements assume that all required infrastructure and regulatory approvals
 will be in place. This includes aircraft equipage, airspace design, environmental reviews, frequencies,
 training, etc. as needed.
- **Note:** These benchmarks do not consider any limitation on airport traffic flow that may be caused by non-runway constraints at the airport or elsewhere in the NAS. Such constraints may include:
 - Taxiway and gate congestion, runway crossings, slot controls, construction activity
 - Terminal airspace, especially limited departure headings
 - Traffic flow restrictions caused by en route miles-in-trail restrictions, weather or congestion problems at other airports

These values were calculated for the Capacity Benchmarking task and should not be used for other purposes, particularly if more detailed analyses have been performed for the individual programs.

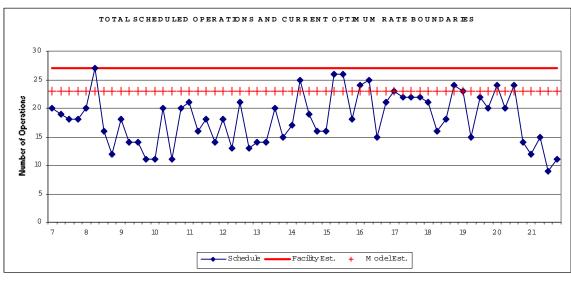
The list of Planned Improvements and their expected effects on capacity does not imply FAA commitment to or approval of any item on the list.

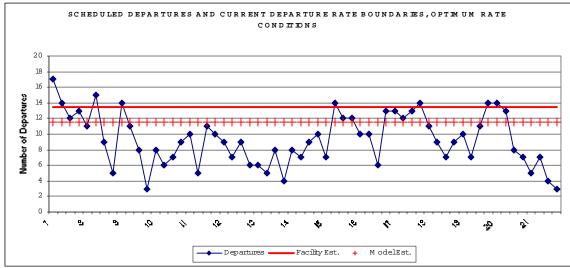
Current Operations – Optimum Rate

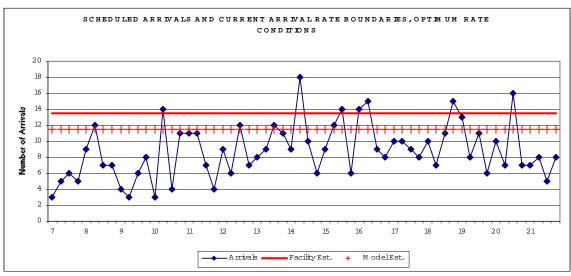
- Visual approaches, visual separation Optimum Rate of (58,50) or (50,58) with a balanced rate of (54,54) was reported by the facility
 - Arrive 22L, and as traffic permits, on 11, while aircraft Depart 22R with alternate departures on 29
- ASPM data are actual hourly traffic counts for the month of April 2000 for Visual Approach conditions. These data include other runway configurations and off-peak periods.
- Solid line represents the airport capacity during a busy hour calculated by the FAA Airport Capacity Model, showing the tradeoff between arrival and departure rates
- The capacity model can only approximate the complex operations at EWR



Scheduled Departures and Arrivals and Current Departure and Arrival Rate Boundaries (15-Minute Periods) Under Optimum Rate Conditions

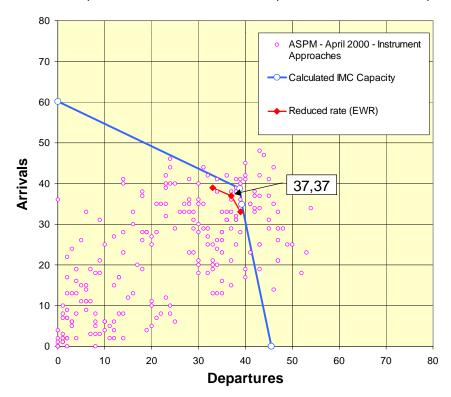






Current Operations – Reduced Rate

- Instrument approaches (below Visual Approach Minima)
 - Arrive 4R, Depart 4L
- Reduced Rate of (39,33) or (33,39) and a balanced rate of (37,37) was reported by the facility
- ASPM data for "Instrument Approaches" can include marginal VFR, with higher acceptance rates
- Chart below represents observed traffic and expected rates in terms of operations per hour





Scheduled Departures and Arrivals and Current Departure and Arrival Rate Boundaries (15-Minute Periods) Under Reduced Rate Conditions

